

PATENT ABSTRACTS OF JAPAN

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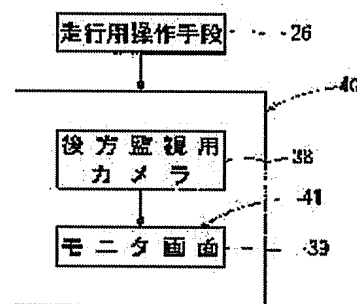
(54) CONSTRUCTION EQUIPMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide construction equipment allowing an operator to increase the safety of working by monitoring the rearward thereof when traveling rearwards.

SOLUTION: This construction equipment comprises a carrier and an upper structure swingably installed on the carrier. A traveling operation means 26 is operated to move the carrier forward and backward. A rear monitoring camera 38 is installed on the upper structure. An image from the rear monitoring camera 38 is displayed on a monitoring screen 39 by operating the traveling operation means 26.

この発明の建設機械の実施の形態を示す簡略ブロック図



26: 走行用操作手段
38: 後方監視用カメラ
39: モニタ画面
40: 後方監視手段
41: モニタ装置

LEGAL STATUS

[Date of request for examination]

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[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

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JAPAN COASTAL AREA

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CLAIMS

[Claim(s)]

[Claim 1] It has a base carrier (1) and the revolving super-structure (3) with which this base carrier (1) is equipped free [revolution]. It is the construction equipment which performs advance retreat of the above-mentioned base carrier (1) by operating the actuation means for transit (26). The construction equipment characterized by displaying the image from the above-mentioned camera for a back monitor (38) on monitor display (39) when the camera for a back monitor (38) is formed in the above-mentioned revolving super-structure (3) and the above-mentioned actuation means for transit (26) operates it.

[Claim 2] The construction equipment of claim 1 characterized by performing this change by actuation of the above-mentioned actuation means for transit (26) while enabling a change with the 1st mode which displays the image from the above-mentioned camera for a back monitor (38) on the above-mentioned monitor display (39), and the 2nd mode which displays a car-body condition on the above-mentioned monitor display.

[Claim 3] It has a base carrier (1) and the revolving super-structure (3) with which this base carrier (1) is equipped free [revolution]. While being the construction equipment which performs advance retreat of the above-mentioned base carrier (1) by operating the actuation means for transit (26) and forming the camera for a back monitor (38) in the above-mentioned revolving super-structure (3) The construction equipment characterized by forming the switch (48) with which monitor display (39) will be in the image display condition from the above-mentioned camera for a back monitor (38) in the above-mentioned actuation means for transit (26).

[Translation done.]

1950-1951

The first section of the report is a general survey of the work done during the year.

This section contains a summary of the work done during the year, and a list of the publications.

The second section of the report is a detailed account of the work done during the year.

This section contains a summary of the work done during the year, and a list of the publications.

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The eighth section of the report is a detailed account of the work done during the year.

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This section contains a summary of the work done during the year, and a list of the publications.

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This section contains a summary of the work done during the year, and a list of the publications.

The fourteenth section of the report is a detailed account of the work done during the year.

This section contains a summary of the work done during the year, and a list of the publications.

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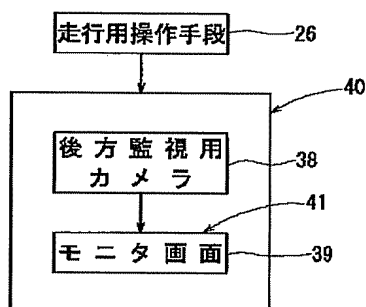
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3.In the drawings, any words are not translated.

DRAWINGS

[Drawing 1]

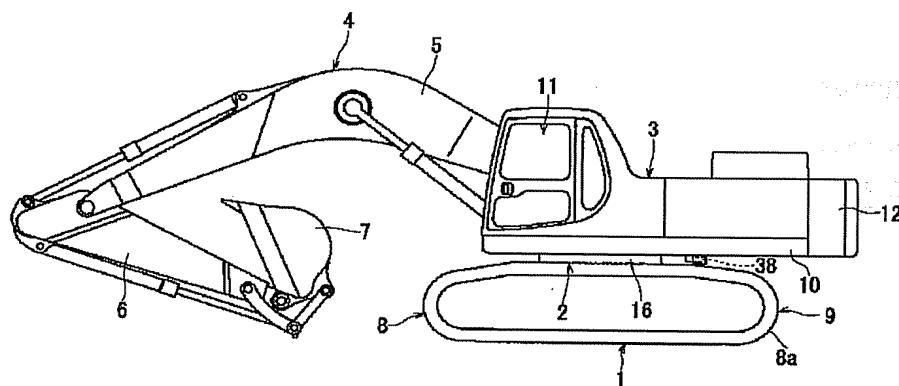
この発明の建設機械の実施の形態を示す簡略ブロック図



26: 走行用操作手段
38: 後方監視用カメラ
39: モニタ画面
40: 後方監視手段
41: モニタ装置

[Drawing 2]

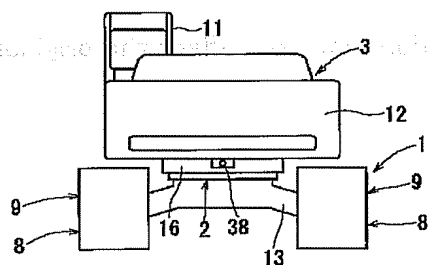
この発明の建設機械の側面図



1: 下部走行体
2: 旋回機構
3: 上部旋回体
4: 作業機
5: ブーム
6: アーム
7: バケット
8: 履帯
8a: 履帯端部
9: 走行部
10: レボフレーム
11: 運転室
12: カウンタウエイト
16: スイングサークル
38: 後方監視用カメラ

[Drawing 3]

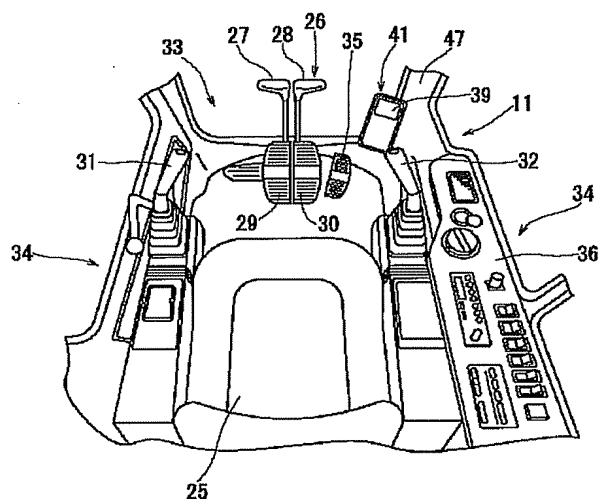
この発明の建設機械の背面図



- | | |
|---------|-------------|
| 1:下部走行体 | 11:運転室 |
| 2:旋回機構 | 12:カウンタウエイト |
| 3:上部旋回体 | 13:トラックフレーム |
| 8:履帯 | 16:スイングサークル |
| 9:走行部 | 38:後方監視用カメラ |

[Drawing 4]

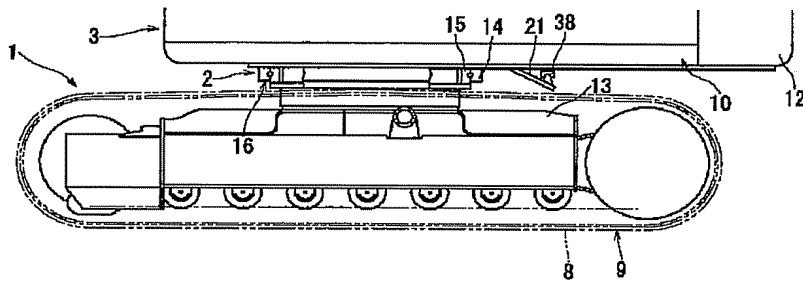
この発明の建設機械の運転室の斜視図



- | | |
|-------------|-------------|
| 11:運転室 | 32:作業機操作レバー |
| 25:運転席 | 33:前窓 |
| 26:走行操作手段 | 34:側方窓 |
| 27:走行レバー | 35:ブレーキペダル |
| 28:走行レバー | 36:計器盤 |
| 29:走行ペダル | 39:モニター画面 |
| 30:走行ペダル | 41:モニター装置 |
| 31:作業機操作レバー | 47:縦枠 |

[Drawing 5]

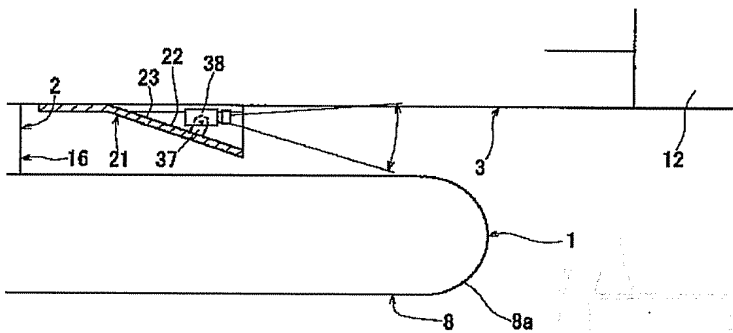
この発明の建設機械の要部側面図



- | | | |
|----------|--------------|--------------|
| 1: 下部走行体 | 10: レボフレーム | 16: スイングサークル |
| 2: 旋回機構 | 12: カウンタウエイト | 21: アンダーカバー |
| 3: 上部旋回体 | 13: トラックフレーム | 38: 後方監視用カメラ |
| 8: 履帯 | 14: アウタレース | |
| 9: 走行部 | 15: インナレース | |

[Drawing 8]

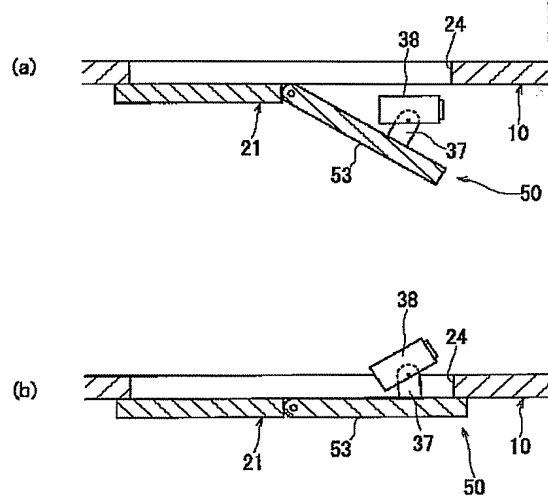
この発明の建設機械の要部簡略断面図



- | | |
|--------------|--------------|
| 1: 下部走行体 | 16: スイングサークル |
| 2: 旋回機構 | 21: アンダーカバー |
| 3: 上部旋回体 | 22: テーパ面 |
| 8: 履帯 | 23: 凹所 |
| 8a: 履帯端部 | 37: 支持棒 |
| 12: カウンタウエイト | 38: 後方監視用カメラ |

[Drawing 12]

この発明の建設機械の別の実施の形態を示す要部断面図

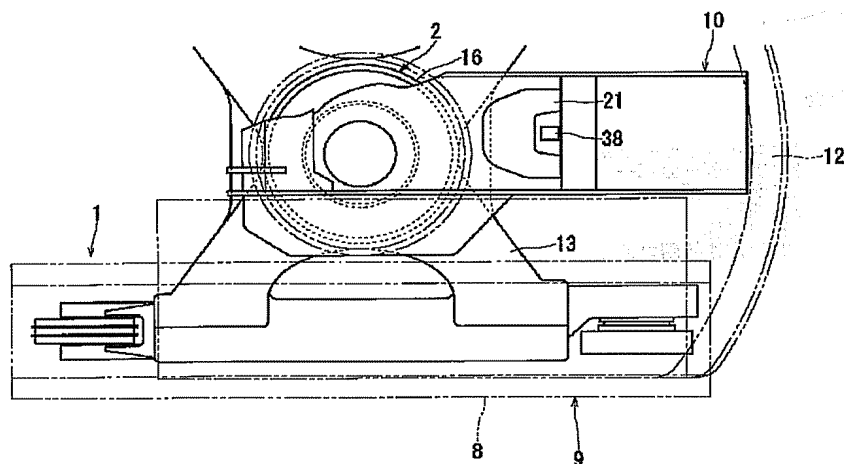


10: レボフレーム
21: アンダーカバー
24: 開口部
37: 支持棒

38: 後方監視用カメラ
50: 支持手段
53: 受け部材

[Drawing 6]

この発明の建設機械の要部平面図

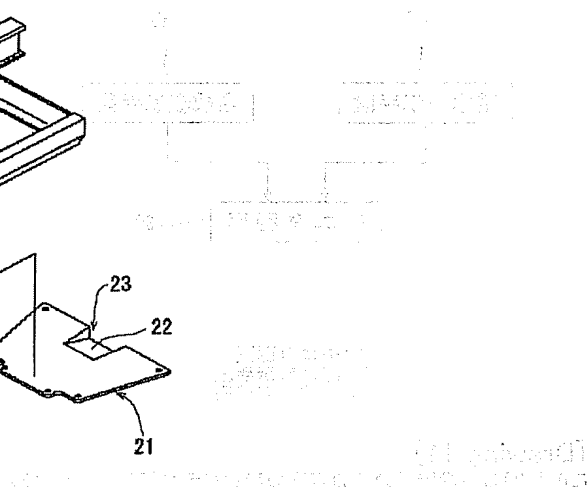


1: 下部走行体
2: 旋回機構
8: 履帯
9: 走行部

10: レボフレーム
12: カウンタウエイト
13: トラックフレーム
16: スイングサークル

21: アンダーカバー
38: 後方監視用カメラ

[Drawing 7]



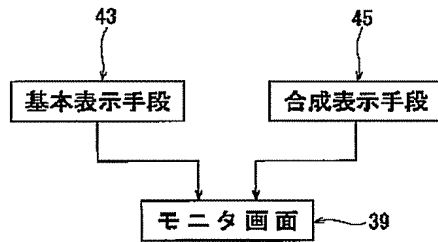
この発明の発明の別の実施の形態の簡略ブロック図

この発明の建設機械のモニタ画面の説明図

8a:履帯端部
12:カウンタウエイト
39:モニタ画面
41:モニタ装置

[Drawing 10]

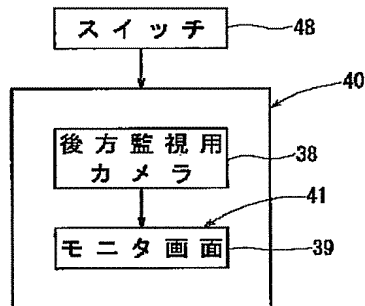
この発明の建設機械のモニタ装置の制御部の簡略ブロック図



39: モニタ画面
 43: 基本表示手段
 45: 合成表示手段

[Drawing 11]

この発明の建設機械の他の実施の形態を示す簡略ブロック図



38: 後方監視用カメラ 41: モニタ装置
 39: モニタ画面 48: スイッチ
 40: 後方監視手段

[Translation done.]